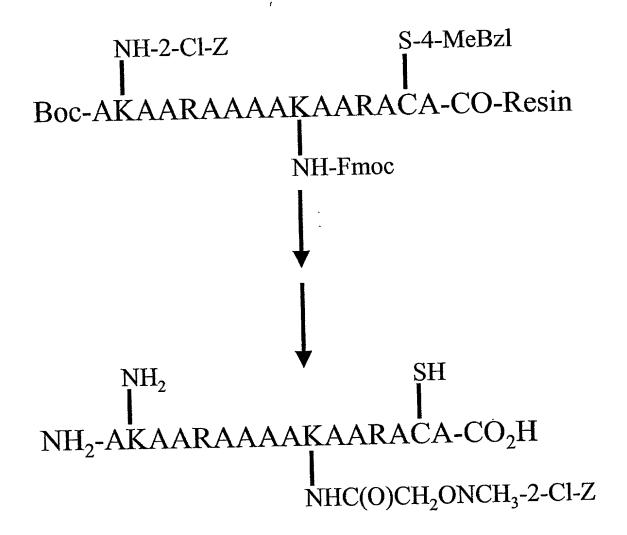


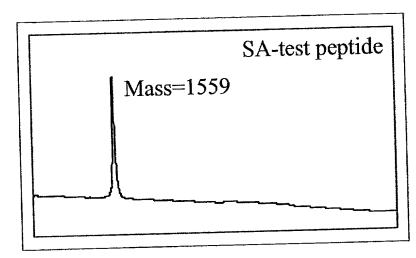
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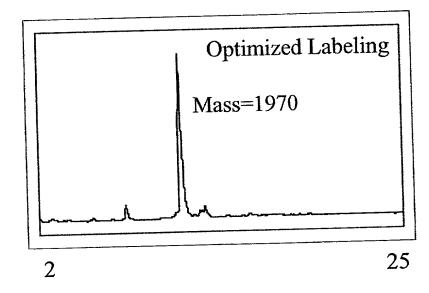
Figure 2



SA-Test Peptide

UV Absorbance (Arbitrary Units)





Time (min)

Figure 4

Sauce 5

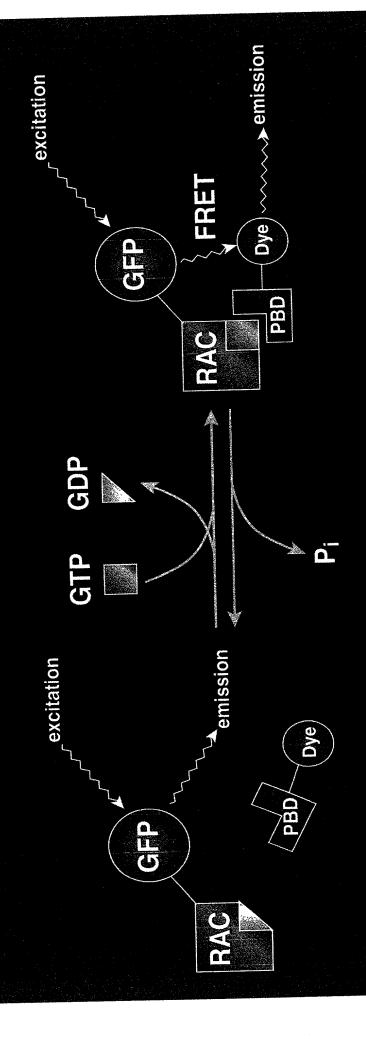


Figure 7A: GFP-Rac to Alexa-PBD FRET

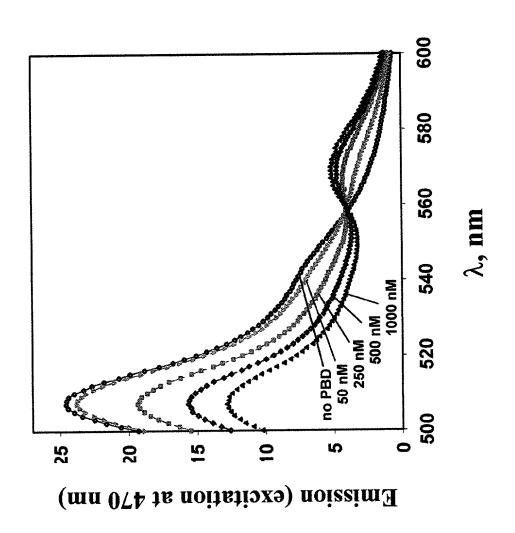
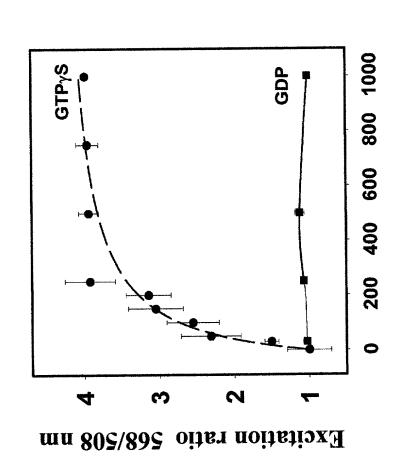


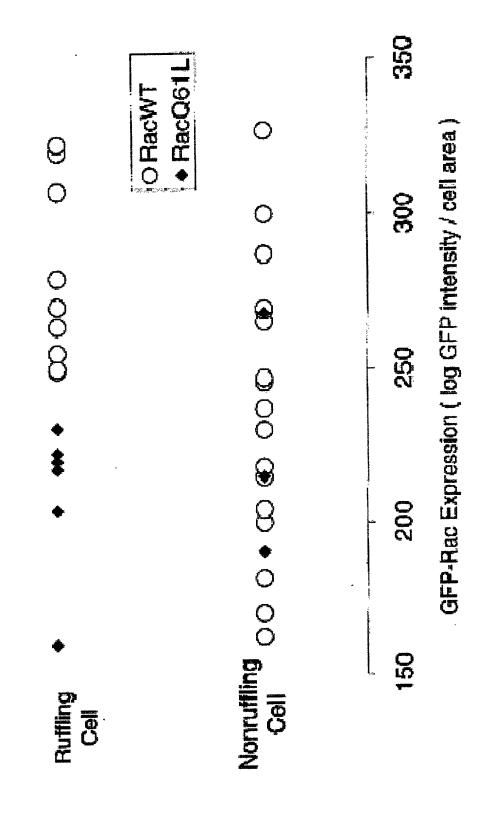
Figure 7B: FRET response to nucleotide state of Rac-GFP



[GTP γ S or GDP], nM

Fig. 8A

Individual cells scored for Rac-Induced ruffling



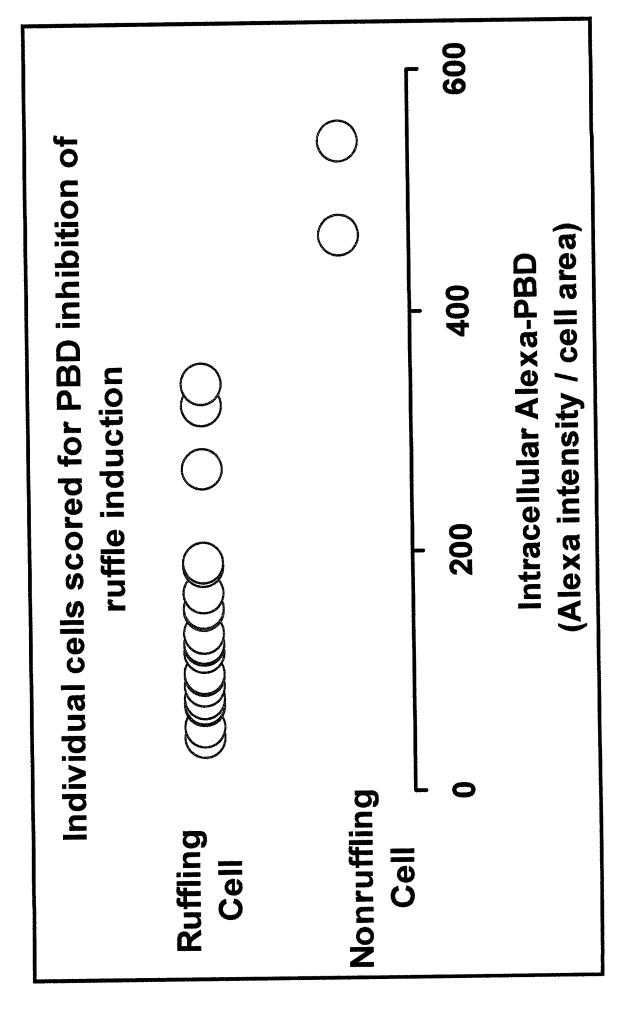
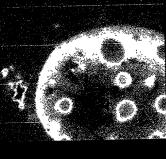


Figure 8B

Fig. 9 A and 9B: Serum stimulation of a Swiss 3T3 fibroblast

BREI

GFP-Rac



19flA

Ruffle

Before

Fig. 9C and 9D: The same ruffle visualized using either FRET or Alexa-PBD localization:

C. FRET intensity = 0-84

D. Alexa-PBD intensity = 88-345

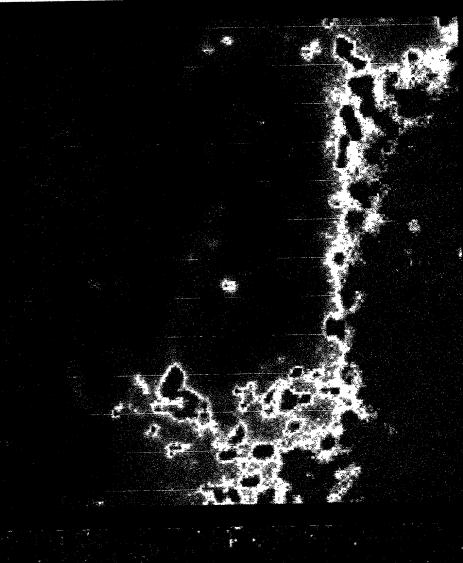


Fig. 10A: Rac-GFP

Fig. 10B: FRET

Wound healing

monolayer Confluent

Magnitude of gradient when highest at front

Magnitude of gradient highest at rear

128 +/- 51 %

n=12

9 +/-4 %

b=u

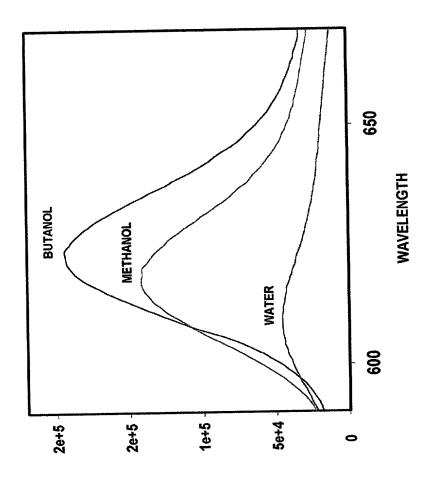


Figure 11

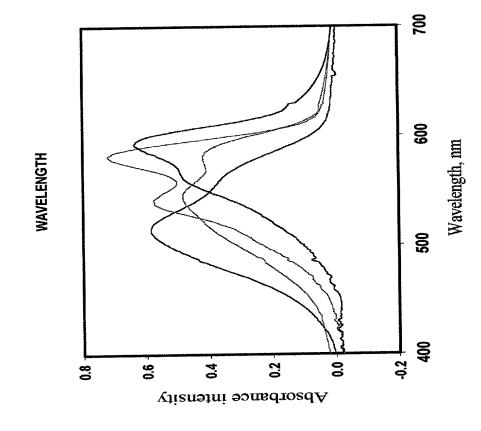


Figure 12

Figure 13: Convergent synthesis of merocyanine dyes

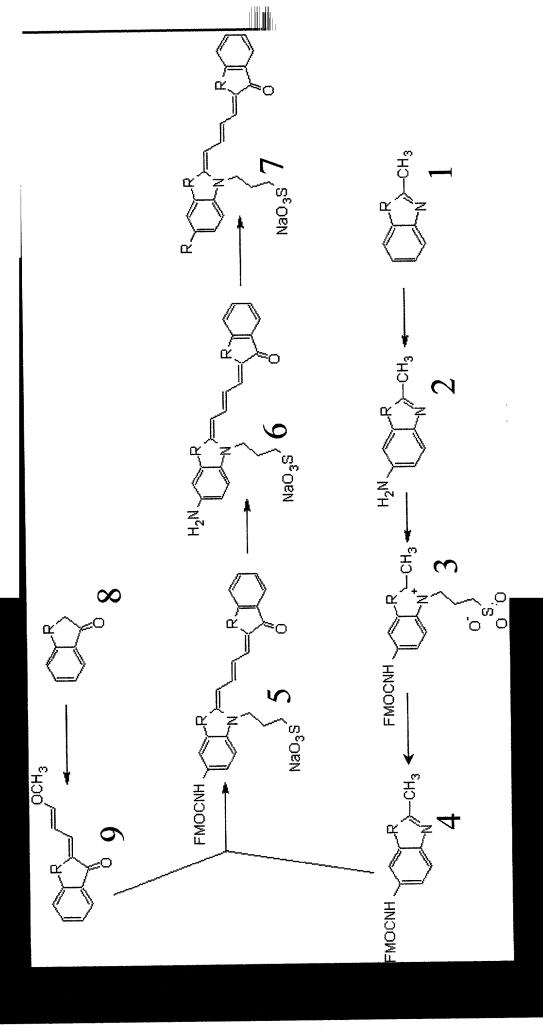
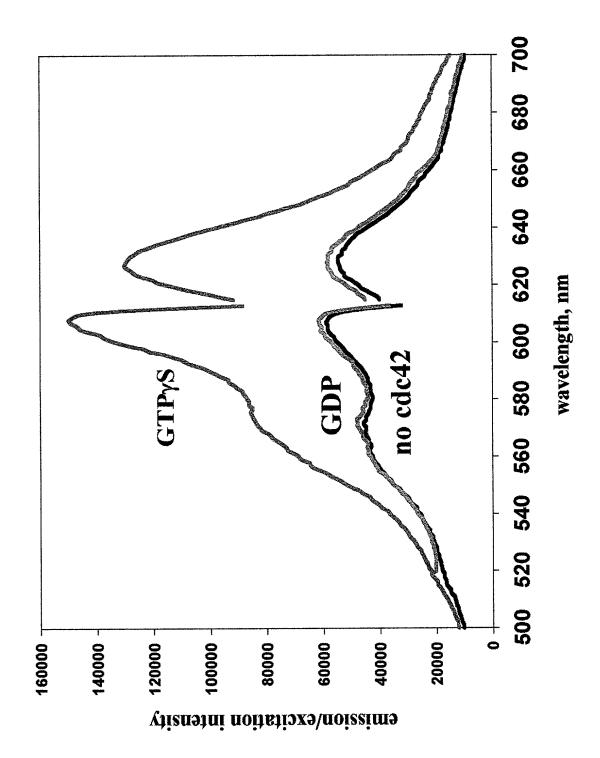


Fig. 15: Fluorescence of Mero-CBD responds to Cdc42 binding



Lysate saturated with GTP γS time after stimulation with fMLP (minutes) **Cell lysate** 80 120 100 9 140 160 180 (% initial) Fluorescence - background

Fig. 16: Mero-CBD in neutrophil lysates

Mero-CBD Alexa-CBD

Fig. 17

Intensity = 28 - 72

Alexa-CBD

Mero-CBD